Received - 14 November 2024
Planning Applications Group

100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	0
Number of Online Controls	0	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FEH	Data Type	Point
FEH Rainfall Version	2013	Cv (Summer)	0.750
Site Location GB 558906 173542		Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	OFF
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 240, 360, 480, 960, 1440
Return Period(s) (years)	100
Climate Change (%)	40

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow
S1.002	SHW63A NORTHWEST SWALE	15 Winter	100	+40%			
S1.003	SHW63B NORTHWEST SWALE	15 Winter	100	+40%			
S1.004	SHW76 NORTHWEST SWALE	15 Winter	100	+40%			
S1.005	SHW76A NORTHWEST SWALE	15 Winter	100	+40%			
S1.006	SHW77 NORTHWEST SWALE	30 Winter	100	+40%			
S1.007	SHW78 NORTHWEST SWALE	30 Winter	100	+40%			
S1.008	SHW80 NORTHWEST SWALE	60 Winter	100	+40%	100/15 Summer		

PN	US/MH Name	Overflow Act.	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)
S1.002	SHW63A NORTHWEST SWALE		14.232	-1.798	0.000	0.01	
S1.003	SHW63B NORTHWEST SWALE		13.533	-1.800	0.000	0.01	
S1.004	SHW76 NORTHWEST SWALE		9.599	-1.395	0.000	0.06	
S1.005	SHW76A NORTHWEST SWALE		9.019	-1.449	0.000	0.06	
S1.006	SHW77 NORTHWEST SWALE		8.653	-1.445	0.000	0.06	
S1.007	SHW78 NORTHWEST SWALE		8.598	-1.256	0.000	0.17	
S1.008	SHW80 NORTHWEST SWALE		7.913	0.878	0.000	3.20	

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PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded
S1.002	SHW63A NORTHWEST SWALE		85.5	OK	
S1.003	SHW63B NORTHWEST SWALE		69.0	OK	
S1.004	SHW76 NORTHWEST SWALE		369.1	OK	
S1.005	SHW76A NORTHWEST SWALE		327.2	OK	
S1.006	SHW77 NORTHWEST SWALE		330.0	OK	
S1.007	SHW78 NORTHWEST SWALE		2131.9	OK	
S1.008	SHW80 NORTHWEST SWALE		1409.8	SURCHARGED*	

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